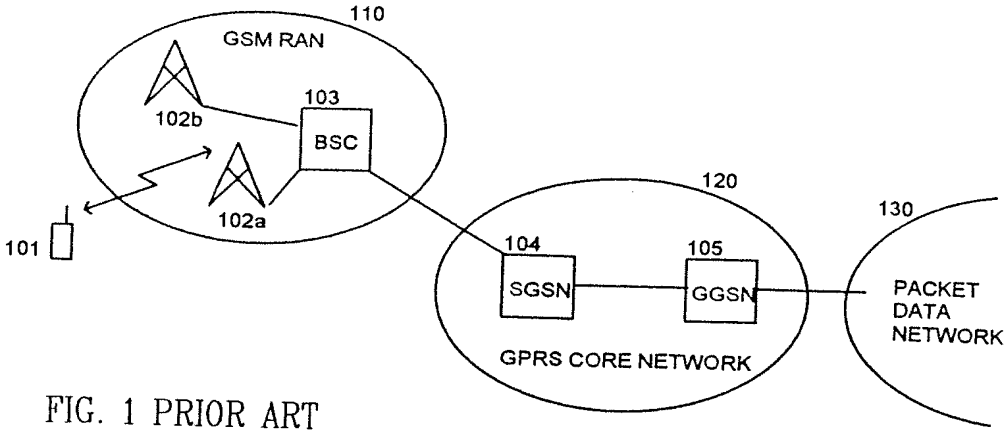


FIG. 1 PRIOR ART

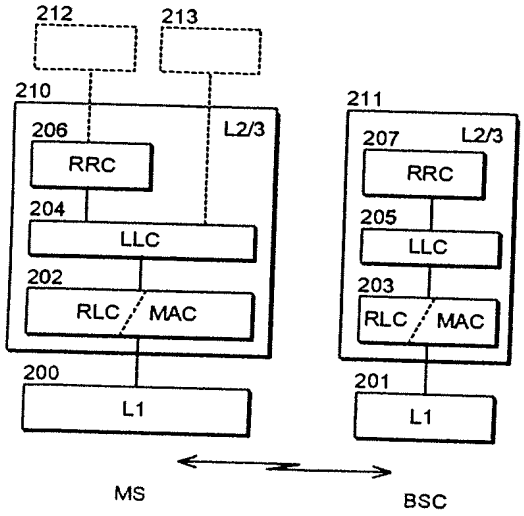


FIG. 2 PRIOR ART

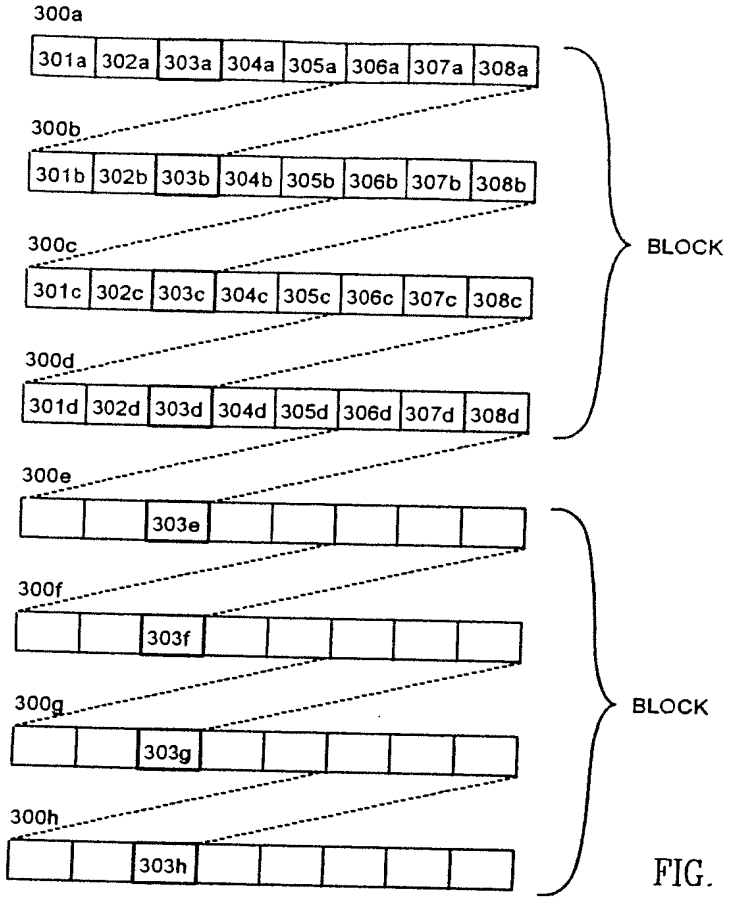


FIG. 3 PRIOR ART

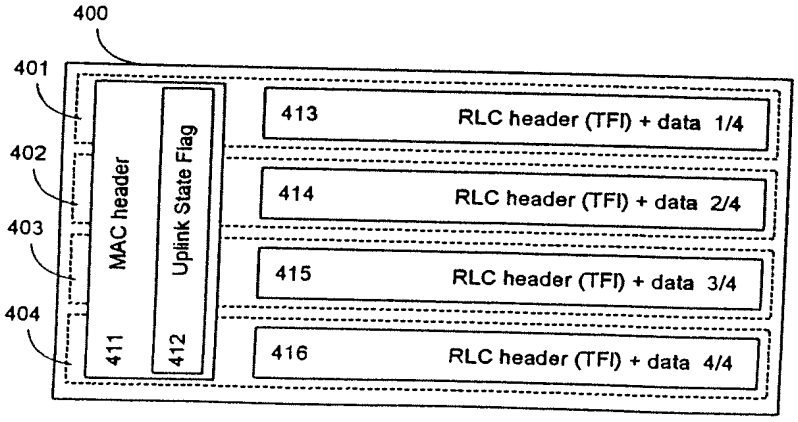


FIG. 4 PRIOR ART

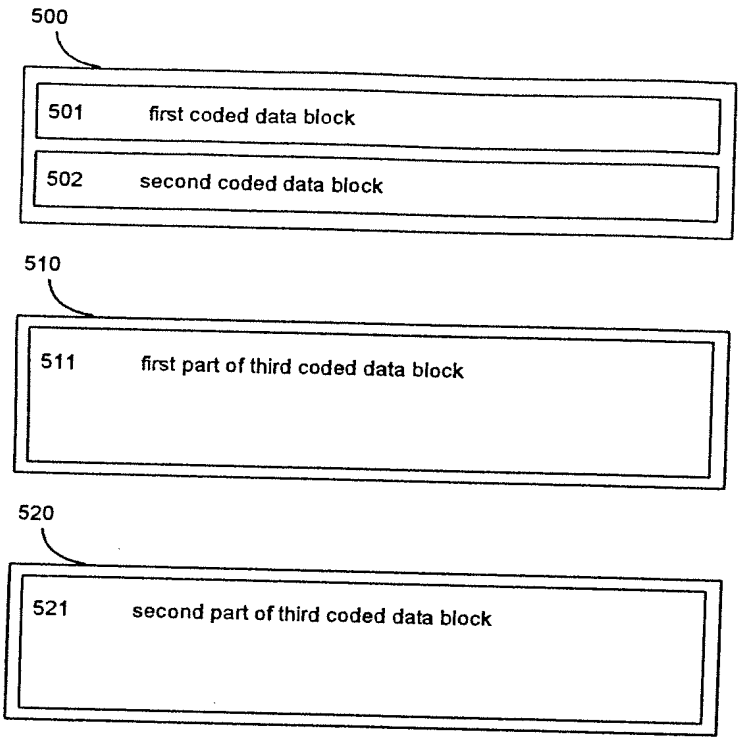

500
501 first coded data block
502 second coded data block
510
511 first part of third coded data block
520
521 second part of third coded data block

FIG. 5

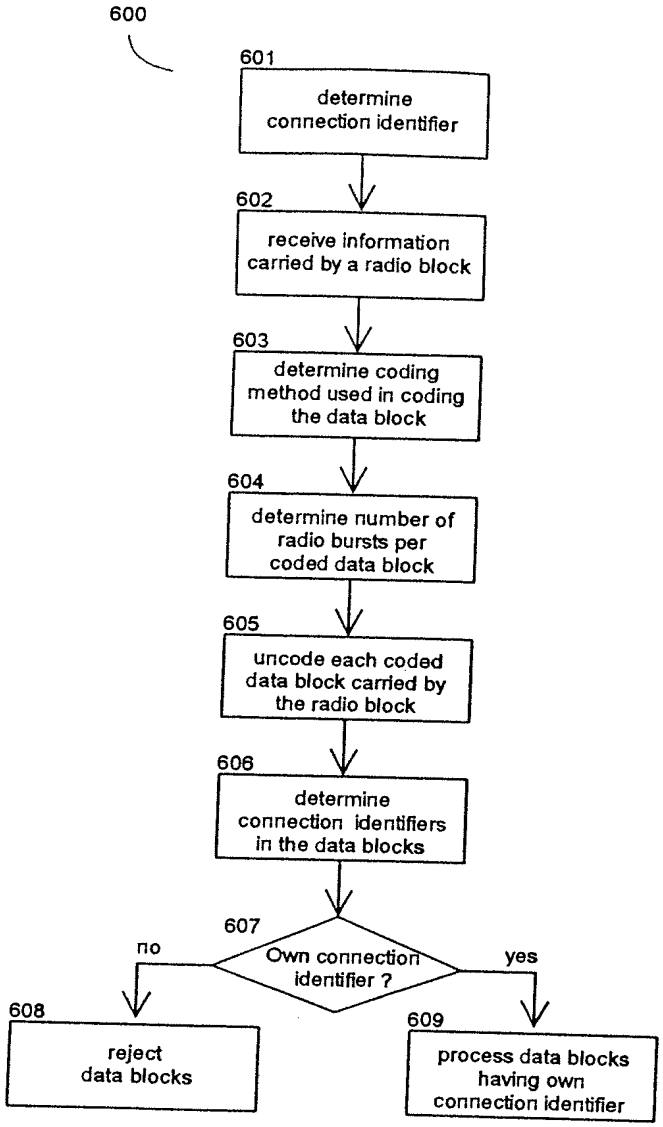

600
601
determine connection identifier
602
receive information carried by a radio block
603
determine coding method used in coding the data block
604
determine number of radio bursts per coded data block
605
uncode each coded data block carried by the radio block
606
determine connection identifiers in the data blocks
607
Own connection identifier ?
no
yes
608
reject data blocks
609
process data blocks having own connection identifier

FIG. 6

FIG. 7a

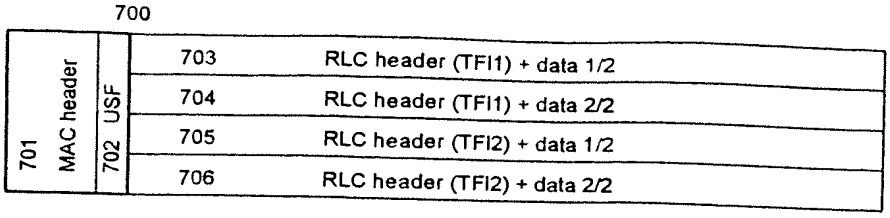


FIG. 7b

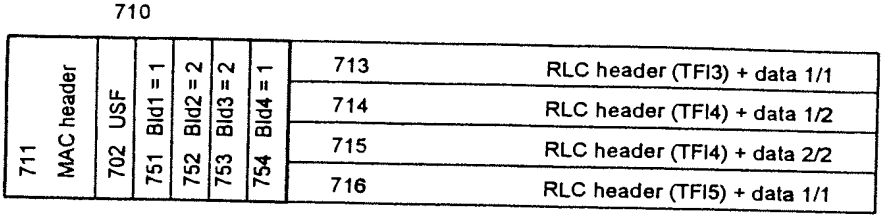


FIG. 7c

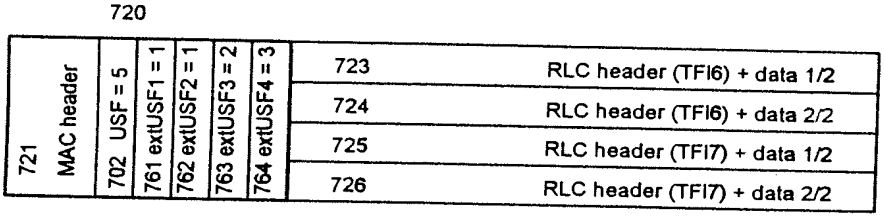


FIG. 7d

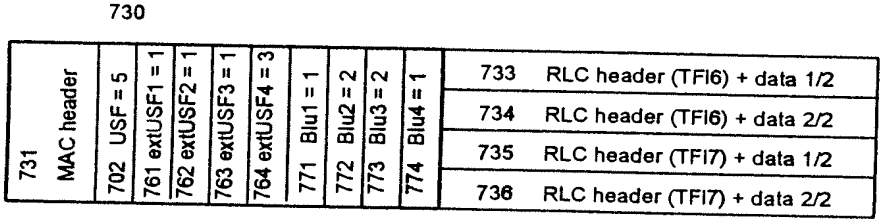
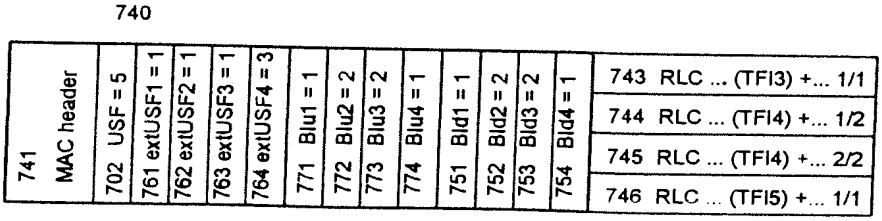


FIG. 7e



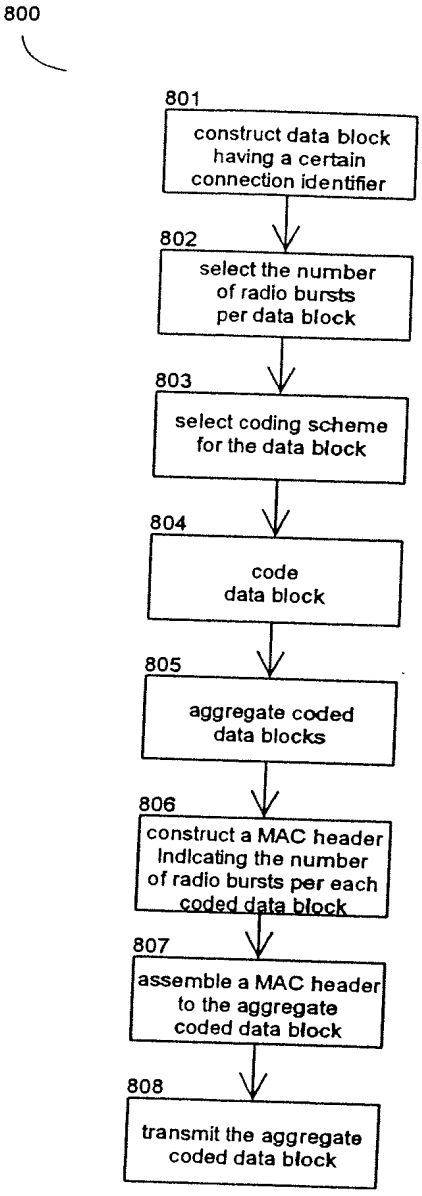

800
801
construct data block having a certain connection identifier
802
select the number of radio bursts per data block
803
select coding scheme for the data block
804
code data block
805
aggregate coded data blocks
806
construct a MAC header Indicating the number of radio bursts per each coded data block
807
assemble a MAC header to the aggregate coded data block
808
transmit the aggregate coded data block

FIG. 8

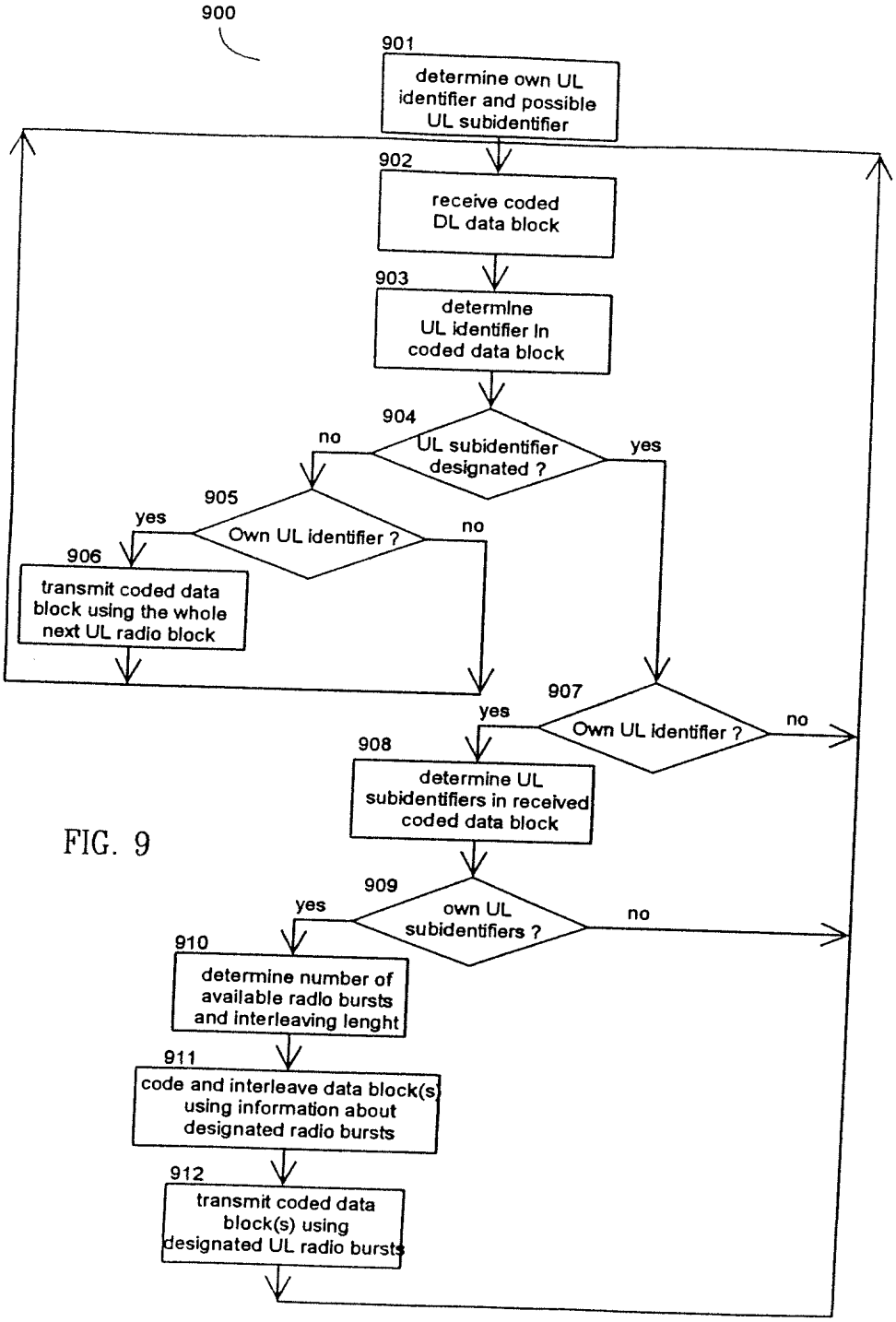

900
901
determine own UL identifier and possible UL subidentifier
902
receive coded DL data block
903
determine UL identifier in coded data block
904
UL subidentifier designated ?
no
yes
905
Own UL identifier ?
yes
no
906
transmit coded data block using the whole next UL radio block
907
Own UL identifier ?
yes
no
908
determine UL subidentifiers in received coded data block
909
own UL subidentifiers ?
yes
no
910
determine number of available radio bursts and interleaving lenght
911
code and interleave data block(s) using information about designated radio bursts
912
transmit coded data block(s) using designated UL radio bursts

FIG. 9

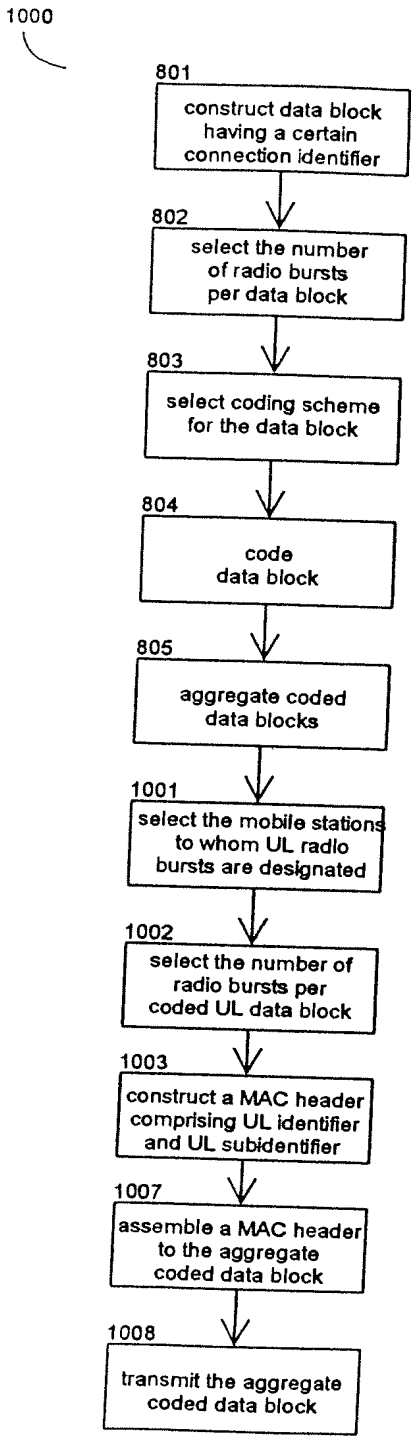

1000
801
construct data block having a certain connection identifier
802
select the number of radio bursts per data block
803
select coding scheme for the data block
804
code data block
805
aggregate coded data blocks
1001
select the mobile stations to whom UL radio bursts are designated
1002
select the number of radio bursts per coded UL data block
1003
construct a MAC header comprising UL identifier and UL subidentifier
1007
assemble a MAC header to the aggregate coded data block
1008
transmit the aggregate coded data block

FIG. 10

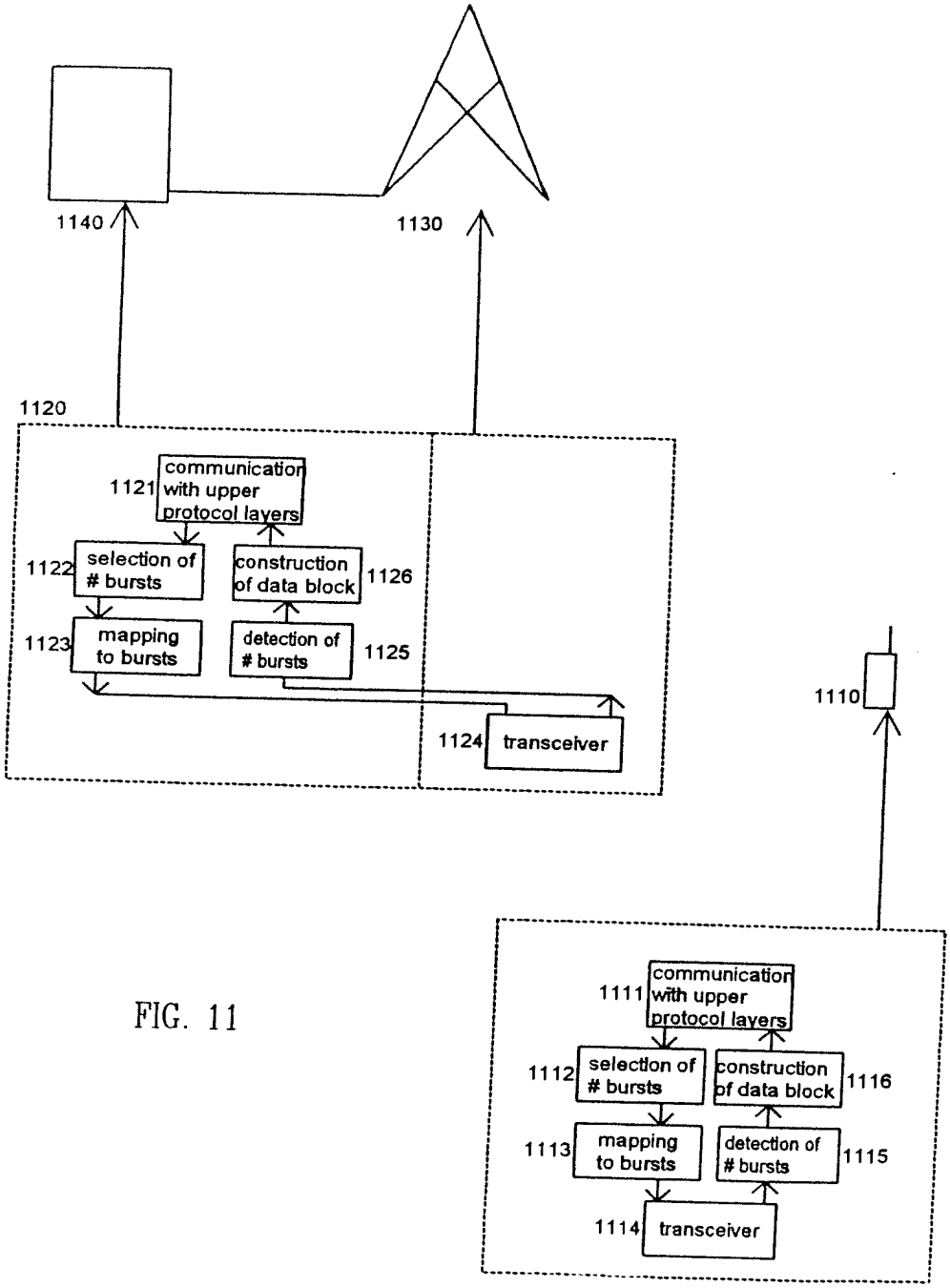

1140
1130
1120
1121
communication with upper protocol layers
1122
selection of # bursts
construction of data block
1126
1123
mapping to bursts
detection of # bursts
1125
1124
transceiver
1110
1111
communication with upper protocol layers
1112
selection of # bursts
construction of data block
1116
1113
mapping to bursts
detection of # bursts
1115
1114
transceiver

FIG. 11